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🔍 Title: **JP04300232A2: COMPOSITE GYPSUM BOARD AND ITS PRODUCTION**

🔍 Derwent Title: Composite gypsum board having improved bending strength and surface precision - is mfd. by mixing alpha-type hemi:hydrate gypsum, dried waste paper pulp, inorganic powder and water, moulding and curing [\[Derwent Record\]](#)

🔍 Country: JP Japan

🔍 Kind: A

🔍 Inventor: YOSHIDA HIROSHI;  
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🔍 Published /  
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🔍 Application  
Number: JP1991000066229

🔍 IPC Code: C04B 28/14; C04B 14/02; C04B 16/02; C04B 28/14;

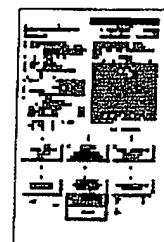
🔍 Priority  
Number: 1991-03-29 JP1991000066229

🔍 Abstract: **PURPOSE:** To obtain a composite gypsum board having improved flexural strength and surface accuracy by adding water to a mixture of  $\alpha$ -gypsum hemihydrate, dried waste paper pulp and inorganic powder, mixing and forming the mixture and curing the formed product.

**CONSTITUTION:** Raw materials composed of 95-45wt.% of  $\alpha$ -gypsum hemihydrate having a Blaine specific surface area of 1,000-8,000cm<sup>2</sup>/g, 3-45wt.% of dried waste paper pulp having a diameter of 20-100 $\mu$ m and a length of 50-3,000 $\mu$ m and 2-20-wt.% of inorganic powder (shirasu balloon) having a fineness of 20-500 $\mu$ m are mixed with each other by a mixer, added with 20-60wt.% of water (based on 100wt.% of the  $\alpha$ -gypsum hemihydrate) using a spray nozzle under pressure and further mixed. The obtained mixture is transferred to a forming machine and formed in the form of a mat. The mat is transferred to a press, pressed under the condition of 5-50kgf/cm<sup>2</sup> to obtain a board, cured at room temperature to 45°C and dried at 70-90°C to obtain the objective composite gypsum board having a bulk density of 0.8-1.5 and a flexural strength of 50-150 kgf/cm<sup>2</sup>.

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🔍 Family: None




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1 page

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References:

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PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US6572697	2003-06-03	Gleeson; James A.	James Hardie Research Pty Limited	Fiber cement building materials with low density additives

Other Abstract  
Info:

CHEMABS 118(14)130760P CAN118(14)130760P DERABS C92-403122 DERC92-403122



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